

- Regeneration of water from urine on space craft - using preserving agent with flushing water and evaporating at atmospheric pressure using capillary porous membranes.

L20 ANSWER 93 OF 121 WPINDEX COPYRIGHT 2002 DERWENT INFORMATION LTD
AN 1996-249871 [25] WPINDEX
DNN N1996-210029
DC Q25
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PA (CHEQ-R) CHEM EQUIP RES INST STOCK CO; (MONI-R) MOSC NIIKHIMMASH RES PRODN ASSOC
CYC 1
PI RU 2046080 C1 19951020 (199625)* 7p
ADT RU 2046080 C1 RU 1992-7634 19921124
PRAI RU 1992-7634 19921124
AN 1996-249871 [25] WPINDEX
AB RU 2046080 C UPAB: 19960625

The urine is collected and preserved with the aid of a preserving agent and flushing water, and extracting the water by evaporation at atmospheric pressure and at a temperature not above 60 deg.C with the aid of porous capillary polymer **membranes**, sorption-catalytic **cleaning** and disinfecting before storing for use as drinking water.

For each dose of the preserving agent two doses of flushing water are used, one together with the preserving agent and the other without it. The evaporation is carried out in a closed circuit, and gas produced during heating is removed at the same time as filtering. The evaporation of water extracted from the urine on the surface of the porous capillary membrane is carried out by a continuous circulating **air flow**.

ADVANTAGE - More effective cleaning and higher condensate quality.

Bul. 29/20.10.95

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